

Global Wave Sensing Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wave Sensing Radar market size is expected to reach \$ 86.84 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032). Wave sensing radar, in the current engineering and observation systems, remains a relatively small-scale, engineering-oriented device, with a price level significantly lower than military or high-end surveillance radars. In 2025, the global annual new installations of wave sensing radar are projected to be approximately 12,400 units, a considerable portion of which will come from standardized configurations in ports, offshore engineering projects, offshore wind farms, and shore-based observation points. The price per unit is around US\$3,700, primarily for software-based or lightly modified solutions built on X-band navigation radar platforms with added wave inversion algorithms. In high-end engineering and energy scenarios, systems with higher stability, dedicated antennas, algorithm licensing, and long-term service can reach a delivery price of US\$15,000-30,000 per unit, but these represent a limited proportion. Overall, the system-level gross profit margin for these products is approximately 30%-45%, significantly lower than military radars but higher than ordinary navigation radar systems. Typical usage includes: one wave radar unit per port or critical waterway node; one to two units per offshore wind farm substation or construction base port; and two to four units deployed in large offshore engineering or oil and gas operation areas based on coverage requirements, creating a continuous demand for replacement and expansion.

The growth of the wave sensing radar market is driven, on the one hand, by the increasing intensity of offshore wind power, port upgrades, and marine engineering activities. As the further offshore and deeper the engineering projects extend, the greater the reliance on non-contact, area-based, real-time wave data. On the other hand, the increasing frequency of extreme weather events and rising safety and compliance requirements are leading port and energy operators to increasingly adopt wave radar as

the 'front-end sensing layer' for operational decision-making. Regionally, Europe continues to lead in standards and demand in the port and offshore wind power sectors, North America maintains stability in research and oil and gas applications, while China, with the intelligentization of ports and the large-scale construction of offshore wind farms, is becoming the fastest-growing market for new installations. In terms of cost and competition, radio frequency and algorithms constitute the core barriers. The scope for simple hardware price competition is limited, instead driving leading manufacturers to secure project lifecycle value through system integration, software licensing, and long-term service contracts. Overall, marine wave radar will remain a specialized niche market driven by engineering projects, with gradually solidifying standards and slowly increasing concentration. Its growth logic is highly correlated with investment in marine infrastructure.

This report studies the global Wave Sensing Radar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wave Sensing Radar and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wave Sensing Radar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wave Sensing Radar total production and demand, 2021-2032, (K Units)

Global Wave Sensing Radar total production value, 2021-2032, (USD Million)

Global Wave Sensing Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Wave Sensing Radar consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Wave Sensing Radar domestic production, consumption, key domestic manufacturers and share

Global Wave Sensing Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Wave Sensing Radar production by Operating Frequency Band, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Wave Sensing Radar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Wave Sensing Radar market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RS Aqua, Furuno, Radac, Miros, Rutter, Garmin, FutureWaves, CODAR, Raymarine, Wartsila, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wave Sensing Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Operating Frequency Band, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Wave Sensing Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wave Sensing Radar Market, Segmentation by Operating Frequency Band:

HF-Band

X-Band

Global Wave Sensing Radar Market, Segmentation by Coverage:

?1?2 km

2?6 km

>10 km

Global Wave Sensing Radar Market, Segmentation by Update Rate:

?10 min

2?5 min

?1 min

Global Wave Sensing Radar Market, Segmentation by Application:

Merchant Ships

Offshore Platforms

Land-Based Observation Stations

Others

Companies Profiled:

RS Aqua

Furuno

Radac

Miros

Rutter

Garmin

FutureWaves

CODAR

Raymarine

Wartsila

Sperry Marine

Norwegian Subsea

OceanWise

WISE Group

Obscape

Helzel

Kekan Marine Technology

Vic-Ocean

Wellmax

Nortek

Key Questions Answered:

1. How big is the global Wave Sensing Radar market?
2. What is the demand of the global Wave Sensing Radar market?
3. What is the year over year growth of the global Wave Sensing Radar market?
4. What is the production and production value of the global Wave Sensing Radar market?
5. Who are the key producers in the global Wave Sensing Radar market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Wave Sensing Radar Introduction
- 1.2 World Wave Sensing Radar Supply & Forecast
 - 1.2.1 World Wave Sensing Radar Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Wave Sensing Radar Production (2021-2032)
 - 1.2.3 World Wave Sensing Radar Pricing Trends (2021-2032)
- 1.3 World Wave Sensing Radar Production by Region (Based on Production Site)
 - 1.3.1 World Wave Sensing Radar Production Value by Region (2021-2032)
 - 1.3.2 World Wave Sensing Radar Production by Region (2021-2032)
 - 1.3.3 World Wave Sensing Radar Average Price by Region (2021-2032)
 - 1.3.4 North America Wave Sensing Radar Production (2021-2032)
 - 1.3.5 Europe Wave Sensing Radar Production (2021-2032)
 - 1.3.6 China Wave Sensing Radar Production (2021-2032)
 - 1.3.7 Japan Wave Sensing Radar Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Wave Sensing Radar Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Wave Sensing Radar Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Wave Sensing Radar Demand (2021-2032)
- 2.2 World Wave Sensing Radar Consumption by Region
 - 2.2.1 World Wave Sensing Radar Consumption by Region (2021-2026)
 - 2.2.2 World Wave Sensing Radar Consumption Forecast by Region (2027-2032)
- 2.3 United States Wave Sensing Radar Consumption (2021-2032)
- 2.4 China Wave Sensing Radar Consumption (2021-2032)
- 2.5 Europe Wave Sensing Radar Consumption (2021-2032)
- 2.6 Japan Wave Sensing Radar Consumption (2021-2032)
- 2.7 South Korea Wave Sensing Radar Consumption (2021-2032)
- 2.8 ASEAN Wave Sensing Radar Consumption (2021-2032)
- 2.9 India Wave Sensing Radar Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Wave Sensing Radar Production Value by Manufacturer (2021-2026)

- 3.2 World Wave Sensing Radar Production by Manufacturer (2021-2026)
- 3.3 World Wave Sensing Radar Average Price by Manufacturer (2021-2026)
- 3.4 Wave Sensing Radar Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Wave Sensing Radar Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Wave Sensing Radar in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Wave Sensing Radar in 2025
- 3.6 Wave Sensing Radar Market: Overall Company Footprint Analysis
 - 3.6.1 Wave Sensing Radar Market: Region Footprint
 - 3.6.2 Wave Sensing Radar Market: Company Product Type Footprint
 - 3.6.3 Wave Sensing Radar Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Wave Sensing Radar Production Value Comparison
 - 4.1.1 United States VS China: Wave Sensing Radar Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Wave Sensing Radar Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Wave Sensing Radar Production Comparison
 - 4.2.1 United States VS China: Wave Sensing Radar Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Wave Sensing Radar Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Wave Sensing Radar Consumption Comparison
 - 4.3.1 United States VS China: Wave Sensing Radar Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Wave Sensing Radar Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Wave Sensing Radar Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Wave Sensing Radar Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Wave Sensing Radar Production Value (2021-2026)

4.4.3 United States Based Manufacturers Wave Sensing Radar Production (2021-2026)

4.5 China Based Wave Sensing Radar Manufacturers and Market Share

4.5.1 China Based Wave Sensing Radar Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Wave Sensing Radar Production Value (2021-2026)

4.5.3 China Based Manufacturers Wave Sensing Radar Production (2021-2026)

4.6 Rest of World Based Wave Sensing Radar Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Wave Sensing Radar Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Wave Sensing Radar Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Wave Sensing Radar Production (2021-2026)

5 MARKET ANALYSIS BY OPERATING FREQUENCY BAND

5.1 World Wave Sensing Radar Market Size Overview by Operating Frequency Band: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Operating Frequency Band

5.2.1 HF-Band

5.2.2 X-Band

5.3 Market Segment by Operating Frequency Band

5.3.1 World Wave Sensing Radar Production by Operating Frequency Band (2021-2032)

5.3.2 World Wave Sensing Radar Production Value by Operating Frequency Band (2021-2032)

5.3.3 World Wave Sensing Radar Average Price by Operating Frequency Band (2021-2032)

6 MARKET ANALYSIS BY COVERAGE

6.1 World Wave Sensing Radar Market Size Overview by Coverage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Coverage

6.2.1 ?1?2 km

6.2.2 2?6 km

6.2.3 >10 km

6.3 Market Segment by Coverage

6.3.1 World Wave Sensing Radar Production by Coverage (2021-2032)

6.3.2 World Wave Sensing Radar Production Value by Coverage (2021-2032)

6.3.3 World Wave Sensing Radar Average Price by Coverage (2021-2032)

7 MARKET ANALYSIS BY UPDATE RATE

7.1 World Wave Sensing Radar Market Size Overview by Update Rate: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Update Rate

7.2.1 ?10 min

7.2.2 2?5 min

7.2.3 ?1 min

7.3 Market Segment by Update Rate

7.3.1 World Wave Sensing Radar Production by Update Rate (2021-2032)

7.3.2 World Wave Sensing Radar Production Value by Update Rate (2021-2032)

7.3.3 World Wave Sensing Radar Average Price by Update Rate (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Wave Sensing Radar Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Merchant Ships

8.2.2 Offshore Platforms

8.2.3 Land-Based Observation Stations

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Wave Sensing Radar Production by Application (2021-2032)

8.3.2 World Wave Sensing Radar Production Value by Application (2021-2032)

8.3.3 World Wave Sensing Radar Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 RS Aqua

9.1.1 RS Aqua Details

9.1.2 RS Aqua Major Business

- 9.1.3 RS Aqua Wave Sensing Radar Product and Services
- 9.1.4 RS Aqua Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 RS Aqua Recent Developments/Updates
- 9.1.6 RS Aqua Competitive Strengths & Weaknesses
- 9.2 Furuno
 - 9.2.1 Furuno Details
 - 9.2.2 Furuno Major Business
 - 9.2.3 Furuno Wave Sensing Radar Product and Services
 - 9.2.4 Furuno Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Furuno Recent Developments/Updates
 - 9.2.6 Furuno Competitive Strengths & Weaknesses
- 9.3 Radac
 - 9.3.1 Radac Details
 - 9.3.2 Radac Major Business
 - 9.3.3 Radac Wave Sensing Radar Product and Services
 - 9.3.4 Radac Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Radac Recent Developments/Updates
 - 9.3.6 Radac Competitive Strengths & Weaknesses
- 9.4 Miros
 - 9.4.1 Miros Details
 - 9.4.2 Miros Major Business
 - 9.4.3 Miros Wave Sensing Radar Product and Services
 - 9.4.4 Miros Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Miros Recent Developments/Updates
 - 9.4.6 Miros Competitive Strengths & Weaknesses
- 9.5 Rutter
 - 9.5.1 Rutter Details
 - 9.5.2 Rutter Major Business
 - 9.5.3 Rutter Wave Sensing Radar Product and Services
 - 9.5.4 Rutter Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Rutter Recent Developments/Updates
 - 9.5.6 Rutter Competitive Strengths & Weaknesses
- 9.6 Garmin
 - 9.6.1 Garmin Details

- 9.6.2 Garmin Major Business
- 9.6.3 Garmin Wave Sensing Radar Product and Services
- 9.6.4 Garmin Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Garmin Recent Developments/Updates
- 9.6.6 Garmin Competitive Strengths & Weaknesses
- 9.7 FutureWaves
 - 9.7.1 FutureWaves Details
 - 9.7.2 FutureWaves Major Business
 - 9.7.3 FutureWaves Wave Sensing Radar Product and Services
 - 9.7.4 FutureWaves Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 FutureWaves Recent Developments/Updates
 - 9.7.6 FutureWaves Competitive Strengths & Weaknesses
- 9.8 CODAR
 - 9.8.1 CODAR Details
 - 9.8.2 CODAR Major Business
 - 9.8.3 CODAR Wave Sensing Radar Product and Services
 - 9.8.4 CODAR Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 CODAR Recent Developments/Updates
 - 9.8.6 CODAR Competitive Strengths & Weaknesses
- 9.9 Raymarine
 - 9.9.1 Raymarine Details
 - 9.9.2 Raymarine Major Business
 - 9.9.3 Raymarine Wave Sensing Radar Product and Services
 - 9.9.4 Raymarine Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Raymarine Recent Developments/Updates
 - 9.9.6 Raymarine Competitive Strengths & Weaknesses
- 9.10 Wartsila
 - 9.10.1 Wartsila Details
 - 9.10.2 Wartsila Major Business
 - 9.10.3 Wartsila Wave Sensing Radar Product and Services
 - 9.10.4 Wartsila Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Wartsila Recent Developments/Updates
 - 9.10.6 Wartsila Competitive Strengths & Weaknesses
- 9.11 Sperry Marine

- 9.11.1 Sperry Marine Details
- 9.11.2 Sperry Marine Major Business
- 9.11.3 Sperry Marine Wave Sensing Radar Product and Services
- 9.11.4 Sperry Marine Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Sperry Marine Recent Developments/Updates
- 9.11.6 Sperry Marine Competitive Strengths & Weaknesses
- 9.12 Norwegian Subsea
 - 9.12.1 Norwegian Subsea Details
 - 9.12.2 Norwegian Subsea Major Business
 - 9.12.3 Norwegian Subsea Wave Sensing Radar Product and Services
 - 9.12.4 Norwegian Subsea Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Norwegian Subsea Recent Developments/Updates
 - 9.12.6 Norwegian Subsea Competitive Strengths & Weaknesses
- 9.13 OceanWise
 - 9.13.1 OceanWise Details
 - 9.13.2 OceanWise Major Business
 - 9.13.3 OceanWise Wave Sensing Radar Product and Services
 - 9.13.4 OceanWise Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 OceanWise Recent Developments/Updates
 - 9.13.6 OceanWise Competitive Strengths & Weaknesses
- 9.14 WISE Group
 - 9.14.1 WISE Group Details
 - 9.14.2 WISE Group Major Business
 - 9.14.3 WISE Group Wave Sensing Radar Product and Services
 - 9.14.4 WISE Group Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 WISE Group Recent Developments/Updates
 - 9.14.6 WISE Group Competitive Strengths & Weaknesses
- 9.15 Obscape
 - 9.15.1 Obscape Details
 - 9.15.2 Obscape Major Business
 - 9.15.3 Obscape Wave Sensing Radar Product and Services
 - 9.15.4 Obscape Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Obscape Recent Developments/Updates
 - 9.15.6 Obscape Competitive Strengths & Weaknesses

9.16 Helzel

9.16.1 Helzel Details

9.16.2 Helzel Major Business

9.16.3 Helzel Wave Sensing Radar Product and Services

9.16.4 Helzel Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Helzel Recent Developments/Updates

9.16.6 Helzel Competitive Strengths & Weaknesses

9.17 Kekan Marine Technology

9.17.1 Kekan Marine Technology Details

9.17.2 Kekan Marine Technology Major Business

9.17.3 Kekan Marine Technology Wave Sensing Radar Product and Services

9.17.4 Kekan Marine Technology Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Kekan Marine Technology Recent Developments/Updates

9.17.6 Kekan Marine Technology Competitive Strengths & Weaknesses

9.18 Vic-Ocean

9.18.1 Vic-Ocean Details

9.18.2 Vic-Ocean Major Business

9.18.3 Vic-Ocean Wave Sensing Radar Product and Services

9.18.4 Vic-Ocean Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Vic-Ocean Recent Developments/Updates

9.18.6 Vic-Ocean Competitive Strengths & Weaknesses

9.19 Wellmax

9.19.1 Wellmax Details

9.19.2 Wellmax Major Business

9.19.3 Wellmax Wave Sensing Radar Product and Services

9.19.4 Wellmax Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Wellmax Recent Developments/Updates

9.19.6 Wellmax Competitive Strengths & Weaknesses

9.20 Nortek

9.20.1 Nortek Details

9.20.2 Nortek Major Business

9.20.3 Nortek Wave Sensing Radar Product and Services

9.20.4 Nortek Wave Sensing Radar Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Nortek Recent Developments/Updates

9.20.6 Nortek Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Wave Sensing Radar Industry Chain

10.2 Wave Sensing Radar Upstream Analysis

10.2.1 Wave Sensing Radar Core Raw Materials

10.2.2 Main Manufacturers of Wave Sensing Radar Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Wave Sensing Radar Production Mode

10.6 Wave Sensing Radar Procurement Model

10.7 Wave Sensing Radar Industry Sales Model and Sales Channels

10.7.1 Wave Sensing Radar Sales Model

10.7.2 Wave Sensing Radar Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Wave Sensing Radar Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Wave Sensing Radar Production Value by Region (2021-2026) & (USD Million)

Table 3. World Wave Sensing Radar Production Value by Region (2027-2032) & (USD Million)

Table 4. World Wave Sensing Radar Production Value Market Share by Region (2021-2026)

Table 5. World Wave Sensing Radar Production Value Market Share by Region (2027-2032)

Table 6. World Wave Sensing Radar Production by Region (2021-2026) & (K Units)

Table 7. World Wave Sensing Radar Production by Region (2027-2032) & (K Units)

Table 8. World Wave Sensing Radar Production Market Share by Region (2021-2026)

Table 9. World Wave Sensing Radar Production Market Share by Region (2027-2032)

Table 10. World Wave Sensing Radar Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Wave Sensing Radar Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Wave Sensing Radar Major Market Trends

Table 13. World Wave Sensing Radar Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Wave Sensing Radar Consumption by Region (2021-2026) & (K Units)

Table 15. World Wave Sensing Radar Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Wave Sensing Radar Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Wave Sensing Radar Producers in 2025

Table 18. World Wave Sensing Radar Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Wave Sensing Radar Producers in 2025

Table 20. World Wave Sensing Radar Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Wave Sensing Radar Company Evaluation Quadrant

Table 22. World Wave Sensing Radar Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Wave Sensing Radar Production Site of Key Manufacturer

Table 24. Wave Sensing Radar Market: Company Product Type Footprint

Table 25. Wave Sensing Radar Market: Company Product Application Footprint

Table 26. Wave Sensing Radar Competitive Factors

Table 27. Wave Sensing Radar New Entrant and Capacity Expansion Plans

Table 28. Wave Sensing Radar Mergers & Acquisitions Activity

Table 29. United States VS China Wave Sensing Radar Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Wave Sensing Radar Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Wave Sensing Radar Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Wave Sensing Radar Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Wave Sensing Radar Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Wave Sensing Radar Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Wave Sensing Radar Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Wave Sensing Radar Production Market Share (2021-2026)

Table 37. China Based Wave Sensing Radar Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Wave Sensing Radar Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Wave Sensing Radar Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Wave Sensing Radar Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Wave Sensing Radar Production Market Share (2021-2026)

Table 42. Rest of World Based Wave Sensing Radar Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Wave Sensing Radar Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Wave Sensing Radar Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Wave Sensing Radar Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Wave Sensing Radar Production Market Share (2021-2026)

Table 47. World Wave Sensing Radar Production Value by Operating Frequency Band, (USD Million), 2021 & 2025 & 2032

Table 48. World Wave Sensing Radar Production by Operating Frequency Band (2021-2026) & (K Units)

Table 49. World Wave Sensing Radar Production by Operating Frequency Band (2027-2032) & (K Units)

Table 50. World Wave Sensing Radar Production Value by Operating Frequency Band (2021-2026) & (USD Million)

Table 51. World Wave Sensing Radar Production Value by Operating Frequency Band (2027-2032) & (USD Million)

Table 52. World Wave Sensing Radar Average Price by Operating Frequency Band (2021-2026) & (US\$/Unit)

Table 53. World Wave Sensing Radar Average Price by Operating Frequency Band (2027-2032) & (US\$/Unit)

Table 54. World Wave Sensing Radar Production Value by Coverage, (USD Million), 2021 & 2025 & 2032

Table 55. World Wave Sensing Radar Production by Coverage (2021-2026) & (K Units)

Table 56. World Wave Sensing Radar Production by Coverage (2027-2032) & (K Units)

Table 57. World Wave Sensing Radar Production Value by Coverage (2021-2026) & (USD Million)

Table 58. World Wave Sensing Radar Production Value by Coverage (2027-2032) & (USD Million)

Table 59. World Wave Sensing Radar Average Price by Coverage (2021-2026) & (US\$/Unit)

Table 60. World Wave Sensing Radar Average Price by Coverage (2027-2032) & (US\$/Unit)

Table 61. World Wave Sensing Radar Production Value by Update Rate, (USD Million), 2021 & 2025 & 2032

Table 62. World Wave Sensing Radar Production by Update Rate (2021-2026) & (K Units)

Table 63. World Wave Sensing Radar Production by Update Rate (2027-2032) & (K Units)

Table 64. World Wave Sensing Radar Production Value by Update Rate (2021-2026) & (USD Million)

Table 65. World Wave Sensing Radar Production Value by Update Rate (2027-2032) &

(USD Million)

Table 66. World Wave Sensing Radar Average Price by Update Rate (2021-2026) & (US\$/Unit)

Table 67. World Wave Sensing Radar Average Price by Update Rate (2027-2032) & (US\$/Unit)

Table 68. World Wave Sensing Radar Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Wave Sensing Radar Production by Application (2021-2026) & (K Units)

Table 70. World Wave Sensing Radar Production by Application (2027-2032) & (K Units)

Table 71. World Wave Sensing Radar Production Value by Application (2021-2026) & (USD Million)

Table 72. World Wave Sensing Radar Production Value by Application (2027-2032) & (USD Million)

Table 73. World Wave Sensing Radar Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Wave Sensing Radar Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. RS Aqua Basic Information, Manufacturing Base and Competitors

Table 76. RS Aqua Major Business

Table 77. RS Aqua Wave Sensing Radar Product and Services

Table 78. RS Aqua Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. RS Aqua Recent Developments/Updates

Table 80. RS Aqua Competitive Strengths & Weaknesses

Table 81. Furuno Basic Information, Manufacturing Base and Competitors

Table 82. Furuno Major Business

Table 83. Furuno Wave Sensing Radar Product and Services

Table 84. Furuno Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Furuno Recent Developments/Updates

Table 86. Furuno Competitive Strengths & Weaknesses

Table 87. Radac Basic Information, Manufacturing Base and Competitors

Table 88. Radac Major Business

Table 89. Radac Wave Sensing Radar Product and Services

Table 90. Radac Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Radac Recent Developments/Updates

- Table 92. Radac Competitive Strengths & Weaknesses
- Table 93. Miros Basic Information, Manufacturing Base and Competitors
- Table 94. Miros Major Business
- Table 95. Miros Wave Sensing Radar Product and Services
- Table 96. Miros Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Miros Recent Developments/Updates
- Table 98. Miros Competitive Strengths & Weaknesses
- Table 99. Rutter Basic Information, Manufacturing Base and Competitors
- Table 100. Rutter Major Business
- Table 101. Rutter Wave Sensing Radar Product and Services
- Table 102. Rutter Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Rutter Recent Developments/Updates
- Table 104. Rutter Competitive Strengths & Weaknesses
- Table 105. Garmin Basic Information, Manufacturing Base and Competitors
- Table 106. Garmin Major Business
- Table 107. Garmin Wave Sensing Radar Product and Services
- Table 108. Garmin Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Garmin Recent Developments/Updates
- Table 110. Garmin Competitive Strengths & Weaknesses
- Table 111. FutureWaves Basic Information, Manufacturing Base and Competitors
- Table 112. FutureWaves Major Business
- Table 113. FutureWaves Wave Sensing Radar Product and Services
- Table 114. FutureWaves Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. FutureWaves Recent Developments/Updates
- Table 116. FutureWaves Competitive Strengths & Weaknesses
- Table 117. CODAR Basic Information, Manufacturing Base and Competitors
- Table 118. CODAR Major Business
- Table 119. CODAR Wave Sensing Radar Product and Services
- Table 120. CODAR Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. CODAR Recent Developments/Updates
- Table 122. CODAR Competitive Strengths & Weaknesses
- Table 123. Raymarine Basic Information, Manufacturing Base and Competitors
- Table 124. Raymarine Major Business
- Table 125. Raymarine Wave Sensing Radar Product and Services

- Table 126. Raymarine Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Raymarine Recent Developments/Updates
- Table 128. Raymarine Competitive Strengths & Weaknesses
- Table 129. Wartsila Basic Information, Manufacturing Base and Competitors
- Table 130. Wartsila Major Business
- Table 131. Wartsila Wave Sensing Radar Product and Services
- Table 132. Wartsila Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Wartsila Recent Developments/Updates
- Table 134. Wartsila Competitive Strengths & Weaknesses
- Table 135. Sperry Marine Basic Information, Manufacturing Base and Competitors
- Table 136. Sperry Marine Major Business
- Table 137. Sperry Marine Wave Sensing Radar Product and Services
- Table 138. Sperry Marine Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Sperry Marine Recent Developments/Updates
- Table 140. Sperry Marine Competitive Strengths & Weaknesses
- Table 141. Norwegian Subsea Basic Information, Manufacturing Base and Competitors
- Table 142. Norwegian Subsea Major Business
- Table 143. Norwegian Subsea Wave Sensing Radar Product and Services
- Table 144. Norwegian Subsea Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Norwegian Subsea Recent Developments/Updates
- Table 146. Norwegian Subsea Competitive Strengths & Weaknesses
- Table 147. OceanWise Basic Information, Manufacturing Base and Competitors
- Table 148. OceanWise Major Business
- Table 149. OceanWise Wave Sensing Radar Product and Services
- Table 150. OceanWise Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. OceanWise Recent Developments/Updates
- Table 152. OceanWise Competitive Strengths & Weaknesses
- Table 153. WISE Group Basic Information, Manufacturing Base and Competitors
- Table 154. WISE Group Major Business
- Table 155. WISE Group Wave Sensing Radar Product and Services
- Table 156. WISE Group Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. WISE Group Recent Developments/Updates

- Table 158. WISE Group Competitive Strengths & Weaknesses
- Table 159. Obscape Basic Information, Manufacturing Base and Competitors
- Table 160. Obscape Major Business
- Table 161. Obscape Wave Sensing Radar Product and Services
- Table 162. Obscape Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Obscape Recent Developments/Updates
- Table 164. Obscape Competitive Strengths & Weaknesses
- Table 165. Helzel Basic Information, Manufacturing Base and Competitors
- Table 166. Helzel Major Business
- Table 167. Helzel Wave Sensing Radar Product and Services
- Table 168. Helzel Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Helzel Recent Developments/Updates
- Table 170. Helzel Competitive Strengths & Weaknesses
- Table 171. Kekan Marine Technology Basic Information, Manufacturing Base and Competitors
- Table 172. Kekan Marine Technology Major Business
- Table 173. Kekan Marine Technology Wave Sensing Radar Product and Services
- Table 174. Kekan Marine Technology Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Kekan Marine Technology Recent Developments/Updates
- Table 176. Kekan Marine Technology Competitive Strengths & Weaknesses
- Table 177. Vic-Ocean Basic Information, Manufacturing Base and Competitors
- Table 178. Vic-Ocean Major Business
- Table 179. Vic-Ocean Wave Sensing Radar Product and Services
- Table 180. Vic-Ocean Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Vic-Ocean Recent Developments/Updates
- Table 182. Vic-Ocean Competitive Strengths & Weaknesses
- Table 183. Wellmax Basic Information, Manufacturing Base and Competitors
- Table 184. Wellmax Major Business
- Table 185. Wellmax Wave Sensing Radar Product and Services
- Table 186. Wellmax Wave Sensing Radar Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. Wellmax Recent Developments/Updates
- Table 188. Wellmax Competitive Strengths & Weaknesses
- Table 189. Nortek Basic Information, Manufacturing Base and Competitors

Table 190. Nortek Major Business

Table 191. Nortek Wave Sensing Radar Product and Services

Table 192. Nortek Wave Sensing Radar Production (K Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Nortek Recent Developments/Updates

Table 194. Nortek Competitive Strengths & Weaknesses

Table 195. Global Key Players of Wave Sensing Radar Upstream (Raw Materials)

Table 196. Global Wave Sensing Radar Typical Customers

Table 197. Wave Sensing Radar Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Wave Sensing Radar Picture

Figure 2. World Wave Sensing Radar Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Wave Sensing Radar Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Wave Sensing Radar Production (2021-2032) & (K Units)

Figure 5. World Wave Sensing Radar Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Wave Sensing Radar Production Value Market Share by Region (2021-2032)

Figure 7. World Wave Sensing Radar Production Market Share by Region (2021-2032)

Figure 8. North America Wave Sensing Radar Production (2021-2032) & (K Units)

Figure 9. Europe Wave Sensing Radar Production (2021-2032) & (K Units)

Figure 10. China Wave Sensing Radar Production (2021-2032) & (K Units)

Figure 11. Japan Wave Sensing Radar Production (2021-2032) & (K Units)

Figure 12. Wave Sensing Radar Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 15. World Wave Sensing Radar Consumption Market Share by Region (2021-2032)

Figure 16. United States Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 17. China Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 18. Europe Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 19. Japan Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 20. South Korea Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 22. India Wave Sensing Radar Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Wave Sensing Radar by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Wave Sensing Radar Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Wave Sensing Radar Markets in 2025

Figure 26. United States VS China: Wave Sensing Radar Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Wave Sensing Radar Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Wave Sensing Radar Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Wave Sensing Radar Production Market Share 2025

Figure 30. China Based Manufacturers Wave Sensing Radar Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Wave Sensing Radar Production Market Share 2025

Figure 32. World Wave Sensing Radar Production Value by Operating Frequency Band, (USD Million), 2021 & 2025 & 2032

Figure 33. World Wave Sensing Radar Production Value Market Share by Operating Frequency Band in 2025

Figure 34. HF-Band

Figure 35. X-Band

Figure 36. World Wave Sensing Radar Production Market Share by Operating Frequency Band (2021-2032)

Figure 37. World Wave Sensing Radar Production Value Market Share by Operating Frequency Band (2021-2032)

Figure 38. World Wave Sensing Radar Average Price by Operating Frequency Band (2021-2032) & (US\$/Unit)

Figure 39. World Wave Sensing Radar Production Value by Coverage, (USD Million), 2021 & 2025 & 2032

Figure 40. World Wave Sensing Radar Production Value Market Share by Coverage in 2025

Figure 41. 1-2 km

Figure 42. 2-6 km

Figure 43. >10 km

Figure 44. World Wave Sensing Radar Production Market Share by Coverage (2021-2032)

Figure 45. World Wave Sensing Radar Production Value Market Share by Coverage (2021-2032)

Figure 46. World Wave Sensing Radar Average Price by Coverage (2021-2032) & (US\$/Unit)

Figure 47. World Wave Sensing Radar Production Value by Update Rate, (USD Million), 2021 & 2025 & 2032

Figure 48. World Wave Sensing Radar Production Value Market Share by Update Rate in 2025

Figure 49. >10 min

Figure 50. 2?5 min

Figure 51. ?1 min

Figure 52. World Wave Sensing Radar Production Market Share by Update Rate (2021-2032)

Figure 53. World Wave Sensing Radar Production Value Market Share by Update Rate (2021-2032)

Figure 54. World Wave Sensing Radar Average Price by Update Rate (2021-2032) & (US\$/Unit)

Figure 55. World Wave Sensing Radar Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Wave Sensing Radar Production Value Market Share by Application in 2025

Figure 57. Merchant Ships

Figure 58. Offshore Platforms

Figure 59. Land-Based Observation Stations

Figure 60. Others

Figure 61. World Wave Sensing Radar Production Market Share by Application (2021-2032)

Figure 62. World Wave Sensing Radar Production Value Market Share by Application (2021-2032)

Figure 63. World Wave Sensing Radar Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Wave Sensing Radar Industry Chain

Figure 65. Wave Sensing Radar Procurement Model

Figure 66. Wave Sensing Radar Sales Model

Figure 67. Wave Sensing Radar Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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